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Descrizione fisica	1 online resource (292 p.)
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. [267]) and indexes.
Nota di contenuto	Front matter -- Contents -- Chapter 1. Sets, relations and functions -- Chapter 2. The integers -- Chapter 3. Introduction to groups -- Chapter 4. Cosets, quotient groups and homomorphisms -- Chapter 5. Groups acting on sets -- Chapter 6. Introduction to rings -- Chapter 7. Division in rings -- Chapter 8. Vector spaces -- Chapter 9. The structure of groups -- Chapter 10. Introduction to the theory of fields -- Chapter 11. Galois theory -- Chapter 12. Further topics -- Backmatter
Sommario/riassunto	This is a high level introduction to abstract algebra which is aimed at readers whose interests lie in mathematics and in the information and physical sciences. In addition to introducing the main concepts of modern algebra, the book contains numerous applications, which are intended to illustrate the concepts and to convince the reader of the utility and relevance of algebra today. In particular applications to Polya coloring theory, latin squares, Steiner systems and error correcting codes are described. Another feature of the book is that group theory and ring theory are carried further tha